Name: ______________________________

GCSE (1 – 9)

The Sine Rule

Instructions

• Use **black** ink or ball-point pen.
• Answer all questions.
• Answer the questions in the spaces provided
– *there may be more space than you need.*
• Diagrams are **NOT** accurately drawn, unless otherwise indicated.
• You must **show all your working out.**

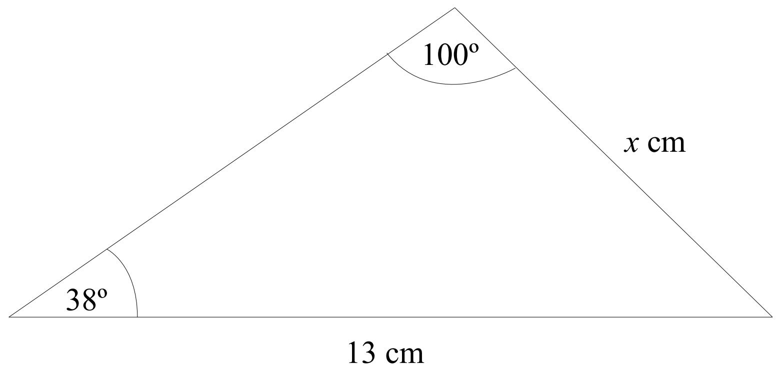
Information

• The marks for each question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*

Advice

• Read each question carefully before you start to answer it.
• Keep an eye on the time.
• Try to answer every question.
• Check your answers if you have time at the end

1

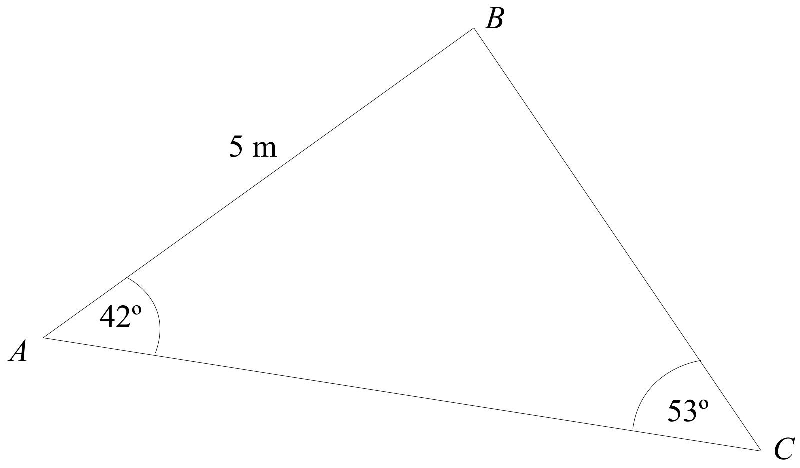


Work out the value of x.
Give your answer to 1 decimal place.

…..........................

(Total for question 1 is 3 marks)

2

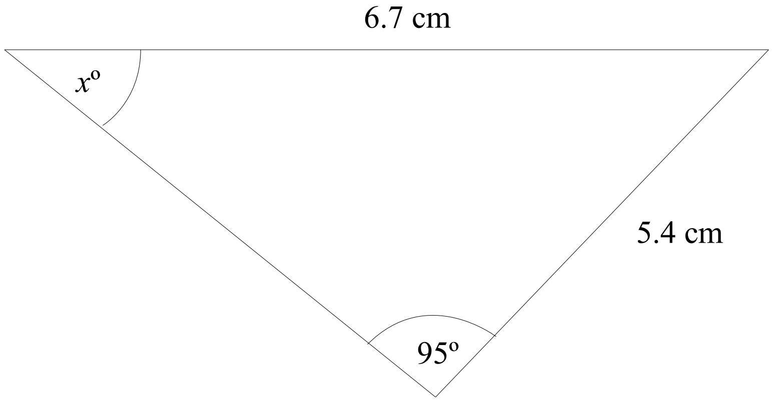


Work out the length of BC.
Give your answer to 3 significant figures.

…..........................m

(Total for question 2 is 3 marks)

3

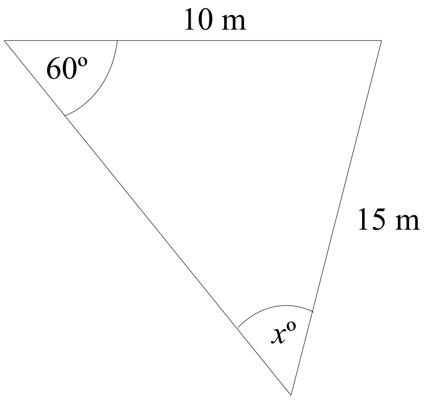


Work out the value of *x*.
Give your answer to 3 significant figures.

…..........................

(Total for question 3 is 3 marks)

4

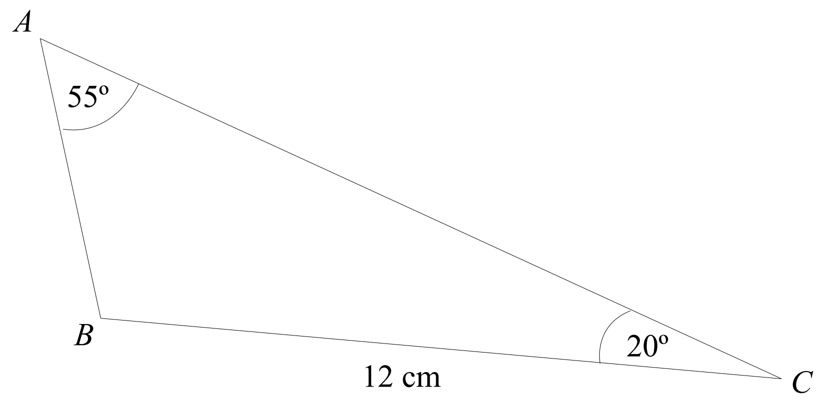


Work out the size of angle *x*.
Give your answer to 3 significant figures.

…..........................

(Total for question 4 is 3 marks)

5

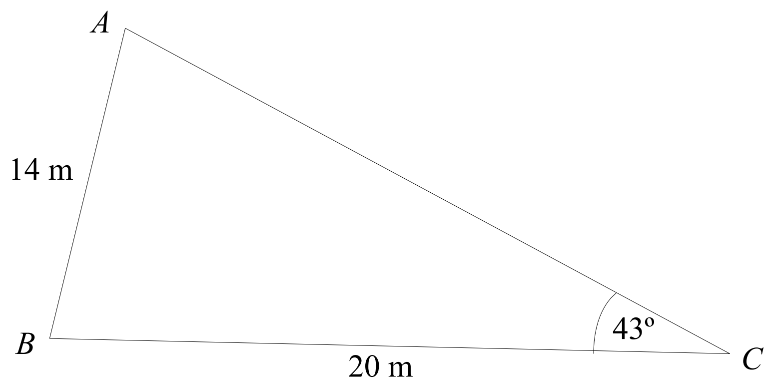


Work out the length of AC.
Give your answer to 1 decimal place.

…..........................cm

(Total for question 5 is 3 marks)

6

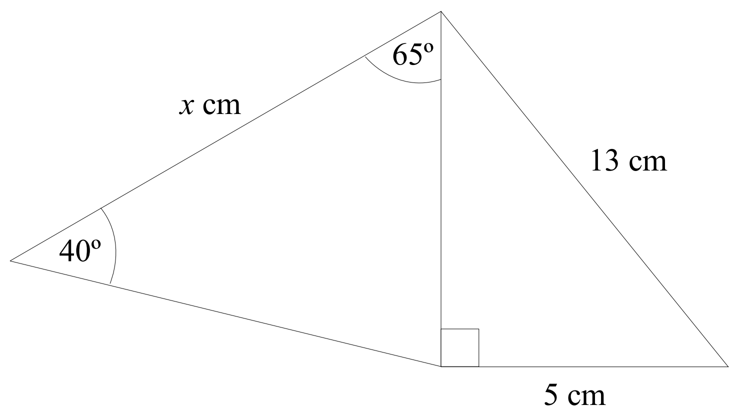


Work out the size of angle *BAC*.
Give your answer to 3 significant figures.

…..........................º

(Total for question 6 is 3 marks)

7

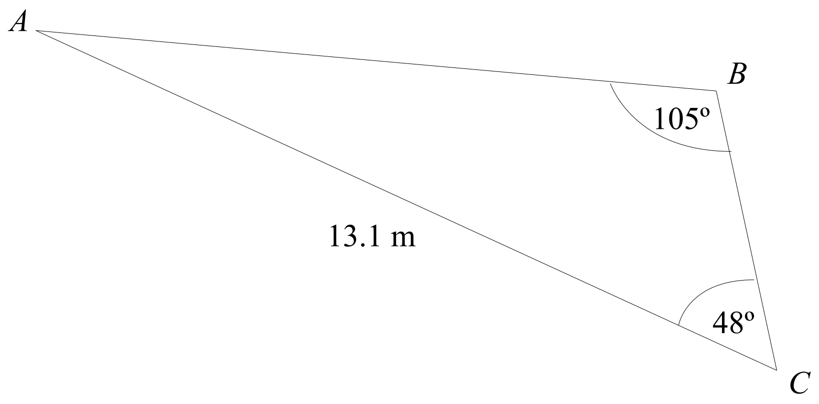


Work out the value of x.
Give your answer to 1 decimal place.

…..........................

(Total for question 7 is 5 marks)

8

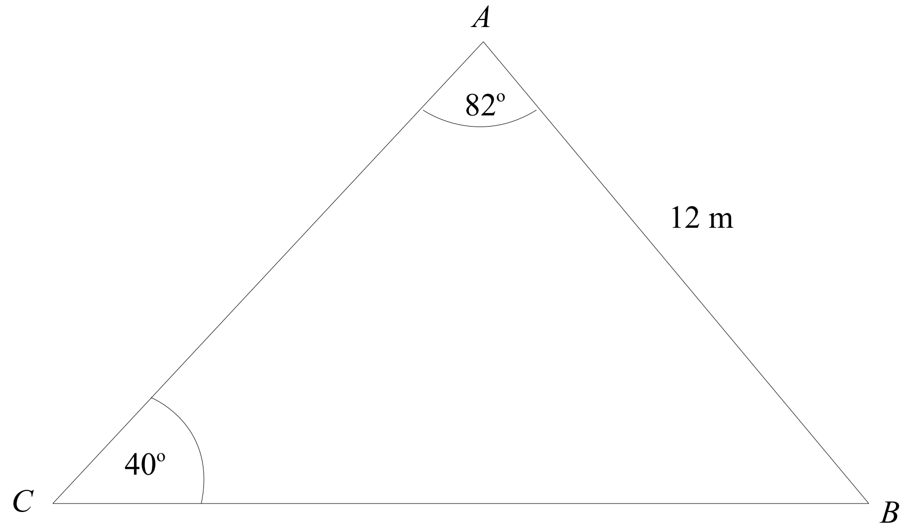


Work out the perimeter of triangle *ABC*.
Give your answer to 3 significant figures.

……………………………

(Total for question 8 is 4 marks)

9



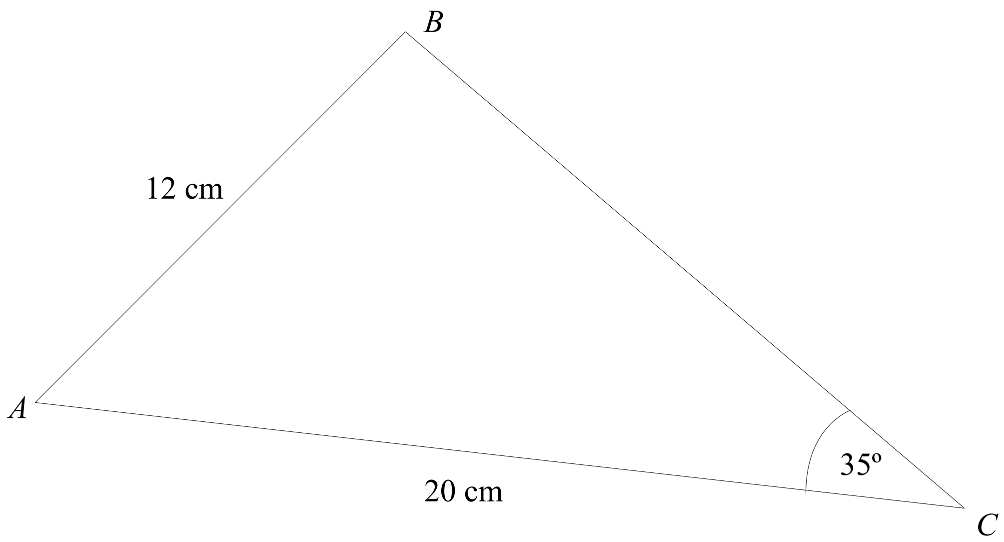
Work out the area of triangle *ABC*

Give your answer to 1 decimal place.

…..........................m^2

(Total for question 9 is 5 marks)

10



Angle *ABC* is obtuse.
Work out the size of angle *ABC*.
Give your answer to 3 significant figures.

……........................°

(Total for question 10 is 4 marks)